QC ABSTRACT

NAME OF WORK: Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

Assistant
Koramangala Division
BBMP, Bangalore

8	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /101-150 cum	101.94	12	12
9	GSB	SIEVE ANALYSIS	One Test		1	1
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
11	DBM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral Aggregate	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
12	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-08-05** **Date: 13-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-08-05** **Date: 07-04-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	10-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Kodigehalli Sub Division
BBMP, Bangalore

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-08-05** **Date: 13-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	318	318	2.1	97.9	90-100
3	20 mm	7440	7758	51.7	48.3	30-70
4	10 mm	5140	12898	86.0	14.0	10-35
5	4.75 mm	1720	14618	97.5	2.5	0-5
6	Pan	378	14996	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-08-05** **Date: 13-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.5	
3	Specific Gravity	2.61	–
4	Bulk Density(Loose) (Kg/l)	1.38	–
5	Bulk Density(Compacted) (Kg/l)	1.42	–
6	Water Absorption(%)	0.25	–

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-08-05** **Date: 11-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-08-05** **Date: 11-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-08-05** **Date: 11-03-23**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 09-03-23

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 09-03-23

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	57	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	238	320	32.0	68.0	30-70	55-90	75-100	90-100
5	600 micron	205	525	52.5	47.5	15-34	35-59	60-79	80-100
6	300 micron	204	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-08-05** **Date: 11-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-06-08-05** **Date: 10-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-03-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	09-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-06-08-05** **Date: 23-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Sample Type /Size	:	Precast Cover Slab - 100mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	18/03/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	100.48	1.116	4718	81.9	17.4	16.1	20.2
2	Cover Slab-2	77.49	100.52	1.122	4715	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.50	100.51	1.118	4716	81.5	17.3	16.1	20.1

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BBMP, Bangalore

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Technical Manager

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-06-08-05** **Date: 23-03-23**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Sample Type /Size : Precast Cover Slab - 250mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 18/03/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.49	250.49	3.119	4715	83.2	17.6	16.4	20.5
2	Cover Slab-2	77.48	250.48	3.122	4714	82.6	17.5	16.3	20.4
3	Cover Slab-3	77.51	250.51	3.123	4718	81.9	17.4	16.1	20.2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 23/03/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	150.38 X 150.07 X 151.97	22567	8.882	419.2	18.6	18.4
2	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	151.19 X 151.25 X 149.90	22867	8.404	421.1	18.4	
3	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	151.63 X 149.28 X 151.04	22635	8.827	413.0	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 13/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	149.91 X 151.01 X 149.11	22638	8.126	533.4	23.6	23.4
2	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	151.05 X 150.12 X 149.11	22676	8.544	512.6	22.6	
3	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	149.70 X 151.98 X 149.88	22752	8.801	545.9	24.0	

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BBMP, Bangalore

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Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 23/03/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	149.95 X 149.39 X 151.16	22400	8.999	423.4	18.9	18.5
2	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	150.74 X 150.08 X 150.24	22623	8.537	420.8	18.6	
3	Drain Bottom Raft Concrete	M20	16/03/2023	23/03/2023	149.44 X 151.78 X 150.71	22682	8.309	408.8	18.0	

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Technical Manager

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-08-05** **Date: 13/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	149.35 X 151.60 X 151.11	22642	8.211	527.6	23.3	23.1
2	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	150.79 X 151.25 X 149.88	22806	8.327	517.8	22.7	
3	Drain Bottom Raft Concrete	M20	16/03/2023	13/04/2023	150.40 X 150.20 X 151.82	22590	8.896	525.7	23.3	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 27/03/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.26 X 150.69 X 150.28	22642	8.677	428.8	18.9	18.5
2	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.95 X 151.55 X 149.82	22876	8.605	423.6	18.5	
3	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	151.82 X 150.09 X 149.46	22788	8.550	413.9	18.2	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 17/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.74 X 151.81 X 151.59	22885	8.421	531.1	23.2	22.9
2	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.50 X 149.97 X 150.53	22571	8.351	499.9	22.1	
3	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.45 X 149.65 X 151.96	22664	8.557	529.6	23.4	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 27/03/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	151.87 X 149.80 X 150.22	22749	8.719	425.8	18.7	18.5
2	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	150.94 X 151.95 X 149.83	22935	8.256	419.0	18.3	
3	Drain Side Wall Concrete	M20	20/03/2023	27/03/2023	149.80 X 151.66 X 151.29	22719	8.177	423.4	18.6	

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Technical Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/04/2023

Lab ID	:	**CP-2023-06-08-05**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-03-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	150.46 X 149.12 X 149.27	22438	8.826	525.6	23.4	23.2
2	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	151.62 X 150.23 X 149.72	22779	8.220	512.8	22.5	
3	Drain Side Wall Concrete	M20	20/03/2023	17/04/2023	149.46 X 149.28 X 150.87	22312	8.478	530.9	23.8	

* The results obtained are satisfactory as per standard requirements.

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Kodigehalli Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 30/03/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-03-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/03/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M20	23/03/2023	30/03/2023	151.80 X 150.63 X 149.21	22865	8.214	416.6	18.2	18.4
2	Culvert Bottom Raft Concrete	M20	23/03/2023	30/03/2023	150.84 X 149.46 X 151.71	22544	8.337	409.2	18.2	
3	Culvert Bottom Raft Concrete	M20	23/03/2023	30/03/2023	150.02 X 149.03 X 150.12	22357	8.741	420.9	18.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-08-05** **Date: 20/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Culvert Bottom Raft Concrete	M20	23/03/2023	20/04/2023	151.27 X 150.25 X 151.88	22728	8.405	536.8	23.6	23.1
2	Culvert Bottom Raft Concrete	M20	23/03/2023	20/04/2023	150.96 X 149.93 X 150.55	22632	8.247	510.2	22.5	
3	Culvert Bottom Raft Concrete	M20	23/03/2023	20/04/2023	149.16 X 150.99 X 149.29	22522	8.218	519.6	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative
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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 03/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	27/03/2023	03/04/2023	150.88 X 149.10 X 150.71	22497	8.654	405.4	18.0	18.4
2	Culvert Side Wall Concrete	M20	27/03/2023	03/04/2023	149.40 X 150.85 X 150.22	22536	8.920	427.9	19.0	
3	Culvert Side Wall Concrete	M20	27/03/2023	03/04/2023	149.64 X 150.89 X 150.48	22579	8.859	409.5	18.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-08-05** **Date: 24/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer's Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	27/03/2023	24/04/2023	149.70 X 149.98 X 151.06	22451	8.522	518.2	23.1	23.0
2	Culvert Side Wall Concrete	M20	27/03/2023	24/04/2023	150.14 X 149.34 X 149.53	22422	8.675	498.0	22.2	
3	Culvert Side Wall Concrete	M20	27/03/2023	24/04/2023	149.62 X 150.65 X 149.38	22541	8.802	536.1	23.8	

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Kodigehalli Sub Division
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Technical Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 29-04-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-04-23
Type of Mix	:	GSB (Granular Sub Base)
Date of Test	:	27-04-23
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	330	330	3.3	96.7	100
53	1000	1330	13.30	86.70	80-100
26.5	1920	3250	32.50	67.50	55-90
9.5	850	4100	41.00	59.00	35-65
4.75	1330	5430	54.30	45.70	25-50
2.36	2700	8130	81.30	18.70	10-20
0.85	1090	9220	92.20	7.80	2-10
0.425	500	9720	97.20	2.80	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Technical Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2023-06-08-05** **Date: 04-05-23**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura

Agency : Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092

Customer Reference : BBMP/EE/BTP/WO/183/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-23

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 02-05-23

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	310	310	2.8	97.2	95-100
22.4	2250	2560	23.3	76.7	60-80
11.2	2188	4748	43.2	56.8	40-60
4.75	2265	7013	63.8	36.2	25-40
2.36	1623	8636	78.5	21.5	15-30
0.6	625	9261	84.2	15.8	8-22
0.075	1330	10591	96.3	3.7	0-5

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BBMP, Bangalore

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 04-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	02-05-23

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.2
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.2
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.7	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 04-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-23
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	02-05-23

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.9%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 08-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer's Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-23
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	06-05-23

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**58**	Min 45mm
2	Softening Point, °C	**51.4**	Min. 47°C
3	Ductility, cm	**97**	Min. 40cm
4	Flash point, °C	**290**	Min. 220°C
	Fire point, °C	**304**	

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TEST RESULTS OF GRADATION FOR DBM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2023-06-08-05 **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	DBM-Plant (Dense Bituminous Macadam)
Date of Test	:	11-05-23
Weight of Sample	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10 (grading -2)
37.5	0	0	0	100	100
26.5	255	255	5.10	94.90	90-100
19	345	600	12.00	88.00	71-95
13.2	450	1050	21.00	79.00	56-80
4.75	1734	2784	55.68	44.32	38-54
2.36	433	3217	64.34	35.66	28-42
0.3	1350	4567	91.34	8.66	7-21
0.075	254	4821	96.42	3.58	2-8
PAN	200	5021	0.00	0	0

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR DENSE BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of Test	:	11-05-23

Table 500-6 : Physical Requirements fo Coarse Aggregate for Dense Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	14.0	Combined Flakiness & Elongation Index for DBM is Maximum 35%	IS:2386 Part I
	Elongation Index	8.0		
Strength	Aggregate Impact Value	22.0	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.58	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.38	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	DBM (Dense Bituminous Mecadam)
Date of Test	:	11-05-23

The results of the tests conducted on the Dense Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	DBM(Dense Bitumnous Macadam)
Date of Test	:	11-05-23

Type of Binder	:	60/70
% of Binder Used	:	4.5%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	9.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2023-06-08-05**	**Date: 18-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura	
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092	
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	17-05-23	
Type of Mix	:	DBM (Dense Bituminous Macadam)	
Date of Test	:	17-05-23	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	479	479.5
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	4.60	4.50
7	Average percentage	%	4.55	

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Kodigehalli Sub Division
BBMP, Bangalore

Lab ID : **CP-RW-2023-06-08-05** **Date: 18-05-23**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 479

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	50	50	10.4	89.6	71-95
13.2	49	99	20.7	79.3	56-80
4.75	185	284	59.3	40.7	38-54
2.36	50	334	69.7	30.3	28-42
0.3	55	389	81.2	18.8	7-21
0.075	63	452	94.4	5.6	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 479.5

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	0	0	0.0	100.0	90-100
19	45	45	9.4	90.6	71-95
13.2	120	165	34.4	65.6	56-80
4.75	100	265	55.3	44.7	38-54
2.36	70	335	69.9	30.1	28-42
0.3	85	420	87.6	12.4	7-21
0.075	35	455	94.9	5.1	2-8

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	11-05-23
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	85	85	1.7	98.3	90-100
9.5	702	787	15.7	84.3	70-88
4.75	899	1686	33.7	66.3	53-71
2.36	586	2272	45.4	54.6	42-58
1.18	490	2762	55.2	44.8	34-48
0.6	503	3265	65.3	34.7	26-38
0.3	524	3789	75.8	24.2	18-28
0.15	458	4247	84.9	15.1	12-20
0.075	360	4607	92.1	7.9	4-10
PAN	395	5002	100	0.0	0

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R.RUDRAPRASAD
Authorized Signatory
Technical Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	11-05-23

Type of Binder	:	60/70
% of Binder Used	:	5.4%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.8 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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BBMP, Bangalore

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	11-05-23

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 15-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	11-05-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	11-05-23

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 19-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	18-05-23
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	18-05-23

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	W1	500	500
2	Weight of the sample After extraction	W2	474.5	475
3	Initial weight of Paper	W3	4	4
4	Final weight of Paper	W4	6	6
5	Increase in weight of Filter Paper	W5=W4-W3	2	2
6	Bitumen percentage	$\frac{W1-W2+W5}{W1}$ X 100	5.50	5.40
7	Average percentage	%	5.45	

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BBMP, Bangalore

Lab ID : **CP-RW-2023-06-08-05** **Date: 19-05-23**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 474.5

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	62	67	14.1	85.9	70-88
4.75	113	180	37.9	62.1	53-71
2.36	87	267	56.3	43.7	42-58
1.18	29	296	62.4	37.6	34-48
0.6	14	310	65.3	34.7	26-38
0.3	47	357	75.2	24.8	18-28
0.15	45	402	84.7	15.3	12-20
0.075	48	450	94.8	5.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	66	72	15.2	84.8	70-88
4.75	110	182	38.3	61.7	53-71
2.36	70	252	53.1	46.9	42-58
1.18	32	284	59.8	40.2	34-48
0.6	15	299	62.9	37.1	26-38
0.3	50	349	73.5	26.5	18-28
0.15	48	397	83.6	16.4	12-20
0.075	45	442	93.1	6.9	4-10

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End of Report

Assistant Executive Engineer
Kodigehalli Sub Division
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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-06-08-05** **Date: 19-05-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement to roads and drains behind swathi hotel at Sahakara Nagar in Ward No:10 Kempapura
Agency	:	Sri.Pradeep S, S/o Srinivasraju, No:458/6, F Block Near Axis bank, Sahakarnagara, Bangalore-560092
Customer Reference	:	BBMP/EE/BTP/WO/183/2022-23
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-23
Type of Mix	:	Tack coat
Date of Test	:	18-05-23

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.802	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.022	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.244	0.256
7	Average	Kg/sq.m	0.250	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

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